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NOTICE OF ALLOWANCE AND FEE(S) DUE

34300 7590 12/23/2010 PATENT DEPARTMENT (51851) KILPATRICK STOCKTON LLP 1001 WEST FOURTH STREET WINSTON-SALEM, NC 27101

EXAMINER GISHNOCK, NIKOLAI A PAPER NUMBER ARTHNIT 3715

DATE MAILED: 12/23/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,144	09/09/2003	David Alexander	IMMR-IMD0002E	1898

TITLE OF INVENTION: INTERFACE DEVICE AND METHOD FOR INTERFACING INSTRUMENTS TO MEDICAL PROPERTY SIMULATION

SYSTEMS

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/23/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed off tions	or transing the Pa ierwise i	nitting the ISSU itent, advance of n Block 1, by (a	JE FEE and PUBLICA' rders and notification of a) specifying a new corr	f mai respo	N FEE (if requir intenance fees wi ondence address;	red). E ill be and/or	Hocks 1 through 5 s mailed to the current (b) indicating a sepa	corres rate "I	be completed where pondence address as FEE ADDRESS" for
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.		CON	FIRMATION NO.
10/657,144	09/09/2003			David Alexander				MR-IMD0002E		1898
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APPLN. TYPE	SMALL ENTITY	ISSU	JE FEE DUE	PUBLICATION FEE DUE	E P	REV. PAID ISSUE	FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO		\$1510	\$300		\$0 \$181		\$1810		03/23/2011
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GISHNOCK,	NIKOLAI A		3715	434-262000	_	,				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME Al PLEASE NOTE: Uni recordation as set forti	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignce is ident h in 37 CFR 3.11. Comp	nge of C " Indicati ed. Use o	on form of a Customer PRINTED ON	data will appear on the T a substitute for filing a	to 3 ativel ingle f or age ttorne be pr type) pate an ass	registered patent ly, irm (having as a ent) and the name eys or agents. If n inted.	memb s of up so nam	er a 2	ocume	nt has been filed for
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4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				Apparent of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is brerby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Depoint Account Number (enclose an extra copy of this form).						
	s SMALL ENTITY state	is. See 37		☐ b. Applicant is no lo						
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req records of the United Sta	uired) wi tes Paten	ll not be accepte t and Trademark	d from anyone other than Office.	n the	applicant; a regis	tered a	ttorney or agent; or th	ne assig	nee or other party in
Authorized Signature						Date				
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This collection of informan application. Confident submitting the completed this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DC 13-1450.	FR 1.31 U.S.C. I USPTO rden, sho O NOT SI	1. The information 22 and 37 CFR and 37 CFR are will vary uld be sent to the END FEES OR	on is required to obtain on 1.14. This collection is endepending upon the independent of the complete of the c	or reta estim divida icer, TO	nin a benefit by the lated to take 12 m ual case. Any con U.S. Patent and 1 THIS ADDRESS.	ne publ ninutes nment Fraden SENI	ic which is to file (and to complete, includir s on the amount of tin ark Office, U.S. Dep O TO: Commissioner	i by the ig gathe me you artment for Pate	USPTO to process) ering, preparing, and require to complete t of Commerce, P.O. ents, P.O. Box 1450,

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10/657,144	09/09/2003	David Alexander	IMMR-IMD0002E (434701-029	1898		
34300 75	590 12/23/2010		EXAM	IINER		
PATENT DEPARTMENT (51851)			GISHNOCK, NIKOLAI A			
KILPATRICK ST			ART UNIT	PAPER NUMBER		
1001 WEST FOURTH STREET WINSTON-SALEM, NC 27101		3715 DATE MAILED: 12/23/2010				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/657,144	ALEXANDER ET AL				
Examiner	Art Unit				
NIKOLALA GISHNOCK	3715				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFB 1.313 and MPEP 1308.
- This communication is responsive to the brief filed 7/19/2010.
- The allowed claim(s) is/are 17,24,25,27,32,36 and 38.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) \square All b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date

(b) Including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of

each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the

attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- Notice of Informal Patent Application
- Interview Summary (PTO-413). Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other _____.

/XUAN M. THAI/

Supervisory Patent Examiner, Art Unit 3715

DETAILED ACTION

In response to applicant's brief filed 7/19/2010, claims 1-16, 18-23, 26, 28-31, 34, 35, 37, & 39-40 are cancelled. Claims 17, 24, 25, 27, 32, 33, 36, & 38 are pending.

In view of the appeal brief filed on 7/19/2010, PROSECUTION IS HEREBY

REOPENED.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/XUAN M. THAI/

Supervisory Patent Examiner, Art Unit 3715.

Allowable Subject Matter

2. Claims 17, 24, 25, 27, 32, 36, & 38 are allowed.

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Carl Sanders on 11/19/2010.

The application has been amended as follows:

In claim 17, after the word "a", and before the words "hollow member" in line 4, DELETE the word "resilient"

In claim 24, after the word "a", and before the words "hollow member" in line 4, DELETE the word "resilient".

In claim 24, after the words "when the locking mechanism is engaged" in line 15, INSERT the words "a second retainer coupled to a second end of the bracket proximal to the housing; and a second ring coupled to the housing and the second retainer and configured to rotate about the second retainer to allow the bracket to pivot with respect to the housing".

In claim 32, after the words "having a sensing assembly therein," in line 7, INSERT the words "a second retainer coupled to a second end of the bracket proximal to the housing; and a second ring coupled to the housing and the second retainer and configured to rotate about the second retainer to allow the bracket to pivot with respect to the housing".

Please CANCEL claim 33.

The following is an examiner's statement of reasons for allowance: examiner
understands the hollow member of claims 17, 24, & 32 to refer to the guide tube (see Figure 3,

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Item 34), which accepts navigation tube of the mock instrument (see item 49). In view of the prior arts Hon, Garrison, Carlson, Lang, Younker, and Bailey: although the elements of a mock anatomical site having an orifice and sensing assembly, and a bracket coupled to the mock anatomical site configured to be pivotable where known separately, and the combining step technically feasible, the claimed invention is held as non-obvious because the step of including an angle bracket having first and second rings and retainers to allow the bracket to pivot with respect to the bracket and housing in a plurality of degrees of freedom less than six involved the additional effort of the bracket interfacing with the ring and retainer to allow the mock head to be placed at various positions and orientations while maintaining the mock head at a particular orientation relative to the housing (see specification at page 19, lines 8-20).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NIKOLAI A. GISHNOCK whose telephone number is (571)272-1420. The examiner can normally be reached on M-F 11:00a-7:30p EST (8:00a-4:30p PST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Xuan M. Thai can be reached on 571-272-7147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/657,144

Art Unit: 3715

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

12/17/2010 /N. A. G./ Examiner, Art Unit 3715

/XUAN M. THAI/ Supervisory Patent Examiner, Art Unit 3715